

Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS



Motor type : 1CV2280A

SIMOTICS SD - 280 S - IM B3 - 2p

Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	Project

Remarks

Electrical data

Safe Area

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η ³⁾			cosφ ³⁾			I _A /I _N	M _A /M _N	M _K /M _N	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4	I _I /I _N	T _I /T _N	T _B /T _N	
400	Δ	50	75.00	-/-	134.00	2978	240.0	93.8	93.6	92.4	0.86	0.82	0.74	7.2	2.5	3.2	IE2
690	Y	50	75.00	-/-	78.00	2978	240.0	93.8	93.6	92.4	0.86	0.82	0.74	7.2	2.5	3.2	IE2
460	Δ	60	84.00	-/-	128.00	3578	225.0	94.5	94.1	92.7	0.87	0.84	0.76	7.2	2.5	3.1	IE2
460	Δ	60	75.00	-/-	116.00	3580	200.0	93.6	92.9	91.1	0.87	0.83	0.74	7.7	2.8	3.5	IE2

IM B3 / IM 1001		FS 280 S	490 kg	IP55		IEC/EN 60034	IEC, DIN, ISO, VDE, EN		
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Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 28.3 s | 48.2 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	76.0 / 89.0 dB(A) ²⁾	81.0 / 95.0 dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	0.7100 kg m ²		Vibration severity grade	A
Bearing DE NDE	6315 C3	6315 C3	Insulation	155(F) to 130(B)
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE NDE	25 g 25 g 4000 h		Frame material	cast iron
Lubricants	Unirex N3		Coating (paint finish)	Standard paint finish C2
Regreasing device	Yes (standard)		Color, paint shade	RAL7030
Grease nipple	M10x1 DIN 3404 A		Motor protection	(A) without (Standard)
Type of bearing	Locating bearing NDE		Method of cooling	IC411 - self ventilated, surface cooled
Condensate drainage holes	Yes (standard)			

Terminal box

Terminal box position	top	Max. cross-sectional area	240.0 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	38.0 mm - 45.0 mm
Type of terminal box	TB1 Q01	Cable entry	2xM63x1,5
Contact screw thread	M12	Cable gland	1 gland, 1 plug

Notes:

I_A/I_N = locked rotor current / current nominal
M_K/M_N = locked rotor torque / torque nominal
M_K/M_N = break down torque / nominal torque

1) L10mh according to DIN ISO 281 10/2010
2) at rated power / at full load

3) Value is valid only for DOL operation with motor design IC411

responsible dep.	technical reference	created by	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.
DI MC LVM		DT Configurator		

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Special design

F74	Sheet steel fan cowl	R10	Rotation of the terminal box through 90°, entry from DE
F76	Metal external fan	R15	One metal cable gland
H07	Stainless steel screws and bolts (outside the motor)	R50	Larger terminal box

Notes:

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